

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (currently amended) A water craft having reduced drag, comprising:

a bow, a pair of sidewalls disposed in trailing relation to opposite ends of said bow, a stern, a deck and a hull that collectively form said water craft;

a rigid concavity formed in said hull;

said rigid concavity having a longitudinal extent that exceeds a transverse extent thereof;

said rigid concavity having a forward end near said bow and a rearward end forwardly of said stern so that air flows into said rigid concavity at said forward end and so that air flows out of said rigid concavity at said rearward end and under said stern as said water craft undergoes forward travel;

an air scoop mounted on said bow, said air scoop adapted to collect ambient air when said water craft is undergoing forward travel and to direct said ambient air into said rigid concavity;

an airflow passageway that extends from a leading end of said air scoop into a leading end of said rigid concavity;

whereby said air in said rigid concavity reduces the drag of the water craft, thereby enabling said water craft to travel faster under its own power and reducing the power required to tow the water craft behind a larger craft, because said air replaces water that would otherwise provide increased drag; and

whereby water flowing under said water craft draws air into said airflow passageway and hence into said rigid concavity.

2. (canceled)

3. (currently amended) The water craft of claim 21, further comprising:

a one-way valve mounted in said airflow passageway to enable airflow into said rigid concavity when said water craft is in forward motion and to prevent reverse direction air flow so that air flowing in airflow passageway toward said rigid concavity cannot flow in an opposite direction past said one-way valve;

whereby air in said rigid concavity does not flow toward said air scoop when the bow of the water craft is momentarily lifted from the water when the water craft is traveling in choppy waters.

4. (original) The water craft of claim 3, further comprising:

a frame for holding a vertically and transversely disposed wire mesh being snugly positioned in said airflow passageway;

a plurality of flexible flaps that depend from a top edge of said frame;

said flexible flaps being lifted from said wire mesh when air flows through said airflow passageway in a direction from said air scoop toward said rigid concavity;

said flexible flaps being pressed against said wire mesh when air flows from said rigid concavity toward said air scoop;

said flexible flaps in conjunction with said wire mesh forming said one-way valve.

5. (original) The water craft of claim 3, further comprising:

a vertically and transversely disposed frame for an imperforate gate being snugly positioned in said airflow passageway;

said imperforate gate being hingedly connected to a top edge of said frame;

said imperforate gate being displaced from a position of repose when air flows through said airflow passageway in a direction from said air scoop toward said rigid concavity;

said imperforate gate returning to said position of repose when air flows from said rigid concavity toward said air scoop;

said imperforate gate forming said one-way valve.

6. (original) The water craft of claim 1, further comprising:

a layer of rigid material that overlies said hull and a lower surface of said bow and sidewalls, said layer of rigid material imparting said rigidity to said rigid concavity and said layer of rigid material extending in integral form from said concavity to respective lower surface of said bow and sidewalls;

an elongate, longitudinally disposed rib secured to an underside of each of said sidewalls in depending relation thereto;

said elongate ribs inhibiting transverse motion of said stern when said water craft is in forward motion.

7. (previously presented) The water craft of claim 1, further comprising:

said air scoop having a generally elliptical shape such that a transverse extent thereof is greater than a height extent thereof.

8. (previously presented) The water craft of claim 1, further comprising:
a rigid, transversely disposed stern plate mounted to an underside of said hull;
said stern plate being positioned forwardly of said stern;
said stern plate being angled by a small angle relative to a horizontal plane such that a leading end thereof is slightly elevated relative to a trailing end thereof.

9. (original) The stern plate of claim 8, further comprising:
said small angle being about one to two degrees (1-2°) relative to said horizontal plane.

10. (original) The water craft of claim 1, further comprising:
a pair of stern plates hingedly mounted to said water craft at the stern thereof on opposite sides of a motor;

control means for varying the angle of said stern plates relative to a horizontal plane;
whereby back pressure to air and water flow through said rigid concavity is controlled by controlling the angle of said stern plates, there being reduced back pressure when said stern plates are disposed at a relatively small angle relative to a horizontal plane and there being increased back pressure when said stern plates are disposed at a relatively large angle relative to said horizontal plane;

whereby increased back pressure provides increased buoyancy for the water craft.

11-19 (canceled).